

SURFORMA® FIRE RETARDANT IMO MED

Decorative HPL for marine applications

Certificate N° 0987/MED-B/849

DESCRIPTION

SURFORMA® decorative laminates Fire Retardant, are certified to meet IMO (International Maritime Organisation) requirements following SOLAS (Safety of Life at Sea) rules and MED (EU Marine Equipment Directive) regulation.

According to EN 438, the HPL is an excellent material for indoor surfaces, either horizontal or vertical. SURFORMA® decorative laminates meet the stringent requirements for hygiene, fire resistance, humidity resistance, and mechanical properties.

The laminate surface is ANTIBACTERIAL, tested according to ISO 22196 and validated accordingly to Japanese regulation JIS Z 2801.

HPL are cured and therefore chemically inert. Laminates surfaces are physiologically safe and approved for use in direct contact with foodstuff.

SURFORMA® decorative laminates are available in a variety of colors, patterns and surface textures, providing extensive options for architects and designers.

Please check the offer & service brochure for information on the sizes and thicknesses available.

APPLICATIONS

Decorative IMO MED laminates are meant to be used in interior marine applications where design, appearance, quality, durability, resistance to abrasion, scratches, stains and fire resistance with low smoke emissions are important features.

SURFORMA® laminates are the best choice for marine equipment, ensuring that each vessel will meet the global safety requirements on board.

PROPERTIES



LOW
EMISSIONS



ANTI-STATIC



ABRASION
RESISTANT



SCRATCH
RESISTANT



STAIN
RESISTANT



LIGHT
RESISTANT



EASY TO CLEAN



DIMENSIONAL
STABILITY



EASY TO MILL



FIRE
RETARDANT

RECOMMENDATIONS

The advice and recommendations are of advisory nature only

Handling & Storage

Laminates should be stored so they are protected from moisture, humidity and direct sunlight. The laminates should preferably be store face-to-face, flat in horizontal racks. When handling or moving decorative laminates, it is important that the sheets be lifted above adjacent sheets to avoid damage that can occur if the sheets are pulled or slid against each other. For larger sizes, it is recommended that sheets be carried arched along the longitudinal axis to prevent sagging. Individual sheets can also be rolled up for easier handling (roll with the decorative face inward, making sure to avoid any side-to-side sliding motions).

Maintenance & Cleaning

SURFORMA® laminates, with their durable, hygienic and waterproof surface, require no special maintenance. The surface can be cleaned with warm water followed by wiping with a paper towel or soft cloth. Persistent contamination can usually be eliminated with non-abrasive household cleaners. They are resistant to most solvents and chemicals used daily at home.

Transportation, Recovery and Disposal

In terms of transport regulations, HPL is not classified as a hazardous material; therefore, labelling is not necessary. Laminates are an article and not a chemical substance and therefore the REACH regulation does not apply. Due to their high calorific value (18-20 MJ/kg)¹ HPL are suitable for thermal recycling.

Laminates can be brought to controlled waste disposal sites according to current national and/or regional regulations

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GENERAL FEATURES

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)	HGF IMO	VGf IMO	
Dimensional tolerance requirements (EN 438-2:2016, Clause No.)					
Thickness	EN 438-2:5	mm (max. variation)	$0,8 \leq t \leq 1,0$	± 0,10	
			1,2	± 0,15	
Length and with	EN 438-2:6	mm	+ 10 / - 0		
Edges straightness	EN 438-2:7	mm/m (max. deviation)	1,5		
Edges squareness	EN 438-2:8	mm/m (max. deviation)	1,5		
Flatness	EN 438-2:9	mm/m (max. deviation)	60		
General Requirements					
Resistance to surface wear	EN 438-2:10	Revolutions (min.)	Initial Point	150	50
Resistance to immersion in boiling water	EN 438-2:12	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Resistance to water vapour	EN 438-2:14	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Resistance to dry heat (160 °C)	EN 438-2:16	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Dimensional stability at elevated temperature	EN 438-2:17	Cumulative dimensional change % (max.)	Longitudinal	0,55	0,75
			Transversal	1,05	1,25
Resistance to wet heat (100 °C)	EN 438-2:18	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Resistance to impact by small diameter ball	EN 438-2:20	Spring force, N (min.)		20	15
Resistance to scratching	EN 438-2:25	Force (min.)	Smooth/ Textured finishes	2 / 3	1 / 2
Resistance to staining	EN 438-2:26	Appearance, rating (min.)	Group 1 e 2 / Group 3	5 / 4	
Light fastness (xenon arc)	EN 438-2:27	Contrast	Grey scale rating	4 to 5	
Density	EN ISO 1183-1	Density, g/cm ³ (min.)		1,35	

SURFORMA® Laminates are classified in accordance with EN 438 – Sheets based on thermosetting resins (Usually called Laminates) – Part 3: Classification and specifications for laminates less than 2 mm thick intended for bonding to supporting substrates. The physical and mechanical properties vary depending on the substrate used. For more information about these properties, please refer to the corresponding Technical Data Sheet.

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Complies with the requirements in the Regulation / Standards: Annex B, Module B. Directive MED/3.18 (a) and (c)

SOLAS Reg. II-2/3, Reg. II-2/5, Reg. II-2/6, Reg. II-2/9, Reg. X/3

SOLAS Reg. II-2/3, Reg. II-2/5, Reg. II-2/6, Reg. II-2/9, IMO Res. MSC 36 (63) – (1994 Code HSC) 7, IMO Res. MSC 97 (73) (2000 HSC Code 7), IMO Circ. MSC 1120

IMO Res. MSC 307 (88) (FTP Code 2010)

Additional performance in reaction to fire

Composite panels comprising HPL type IMO bonded to non-combustible substrates, accordance with EN 13501-1 Euroclass

B-s1,d0

Our due diligence system for tracing the origin of wood - FSC® & PEFC standards:

The well-known certification systems for sustainable forest management FSC and PEFC are equally evaluated by us to ensure traceability of timber throughout the supply chain, from harvest through to the finished product as a proof that the wood originally comes from certified and sustainably managed forests and other controlled sources.

In addition to providing assurance, FSC and PEFC certified materials can also support customers' LEED and BREEAM certification strategies.

CERTIFICATIONS

